Author Index

Aartsma, T.J., see Deinum, G. (1058) 339
Agatsuma, S.-i., see Watanabe, H. (1058) 209
Albrecht, A.C., see Shreve, A.P. (1058) 280
Allen, J.F., see Harrison, M.A. (1058) 289
Allison, W.S., see Muneyuki, E. (1058) 304
Ambler, R.P.
Sequence variability in bacterial cytochromes *c* (1058) 42
Amesz, J., see Deinum, G. (1058) 339
Amesz, J., see Van de Meent, E.J. (1058) 356
Arciero, D.M., see Hooper, A.B. (1058) 13
Azzone, G.F., see Petronilli, V. (1058) 297

Baggetto, L.G., see Cretin, F. (1058) 141
Bakels, R.H.A., Van Walraven, H.S., Scholts, M.J.C., Krab, K. and Kraayenhof, R.
Activation of the H^+-ATP synthases of a thermophilic cyanobacterium and chloroplasts – a comparative study (1058) 225
Barr, R., Branstetter, B.A., Rajnicek, A., Crane, F.L. and Löw, H.
Chloroquine-sensitive transplasmalemma electron transport in *Tetrahymena pyriformis*: a hypothesis for control of parasite protozoa through transmembrane redox (1058) 261
Bartsch, R.G., Ferguson, S.J. and Williams, R.J.P.
Foreword (1058) 1
Bartsch, R.G.
The distribution of soluble metallo-redox proteins in purple phototrophic bacteria (1058) 28
Bellion, E., see Whitney, A.B. (1058) 345
Braidot, E., see Macrì, F. (1058) 249
Bramley, R., see Pace, R.J. (1058) 161
Branstetter, B.A., see Barr, R. (1058) 261
Breton, J., see Juszczak, L.J. (1058) 363
Bruschi, M., see Dolla, A. (1058) 171
Bullough, D.A., see Muneyuki, E. (1058) 304

Caffrey, M.S., see Cusanovich, M.A. (1058) 67
Carpentier, R., see Purcell, M. (1058) 374
Chazotte, B., Wu, E.-S. and Hackenbrock, C.R.
The mobility of a fluorescent ubiquinone in model lipid membranes. Relevance to mitochondrial electron transport (1058) 400
Clejan, S., see Quirk, P.G. (1058) 131
Coleman, W.B. and Cunningham, C.C.
Effect of chronic ethanol consumption on hepatic mitochondrial transcription and translation (1058) 178
Costa, C., see Moura, J.J.G. (1058) 61
Crane, F.L., see Barr, R. (1058) 261
Cretin, F., Baggetto, L.G., Denoroy, L. and Godinot, C.
Identification of F_0 subunits in the rat liver mitochondrial F_0F_1-ATP synthase (1058) 141
Crofts, J. and Horton, P.
Dissipation of excitation energy by Photosystem II particles at low pH (1058) 187
Cunningham, C.C., see Coleman, W.B. (1058) 178
Cusanovich, M.A. and Caffrey, M.S.
Biological electron transfer: progress and future directions (1058) 67

De Boer, A.D., see Hibino, T. (1058) 107
Deinum, G., Kramer, H., Aartsma, T.J., Kleinherenbrink, F.A.M. and Amesz, J.
Fluorescence quenching in *Heliobacterium chlorum* by reaction centers in the charge separated state (1058) 339
Denoroy, L., see Cretin, F. (1058) 141
Dierks, T., see Sluse, F.E. (1058) 329
Doi, M., Shioi, Y., Gad'on, N., Golecki, J.R. and Drews, G.
Spectroscopical studies on the light-harvesting pigment-protein complex II from dark-aerobic and light-anaerobic grown cells of *Rhodobacter sulfidophilus* (1058) 235
Dolla, A., Leroy, G., Guerlesquin, F. and Bruschi, M.
Identification of the site of interaction between cytochrome c_3 and ferredoxin using peptide mapping of the cross-linked complex (1058) 171
Drews, G., see Doi, M. (1058) 235
Duyckaerts, C., see Sluse, F.E. (1058) 329

Enami, I., see Sonoike, K. (1058) 121
Erkelens, C., see Van de Meent, E.J. (1058) 356
Evens, A., see Sluse, F.E. (1058) 329

Feick, R., see Volk, M. (1058) 217
Ferguson, S.J.
The functions and synthesis of bacterial *c*-type cytochromes with particular reference to *Paracoccus denitrificans* and *Rhodobacter capsulatus* (1058) 17
Ferguson, S.J., see Bartsch, R.G. (1058) 1
Frank, H.A., see Shreve, A.P. (1058) 280
Fukumori, Y., see Yamanaka, T. (1058) 48

Gad'on, N., see Doi, M. (1058) 235
Geacintov, N.E., see Juszczak, L.J. (1058) 363
Gennis, R.B.
Some recent advances relating to prokaryotic cytochrome *c* reductases and cytochrome *c* oxidases (1058) 21
Godinot, C., see Cretin, F. (1058) 141
Golecki, J.R., see Doi, M. (1058) 235
Greenbaum, N.L. and Wilson, D.F.
Role of intramitochondrial pH in the energetics and regulation of mitochondrial oxidative phosphorylation (1058) 113
Griebenow, K., Holzwarth, A.R., Van Mourik, F. and Van Grondelle, R.
Pigment organization and energy transfer in green bacteria. 2. Circular and linear dichroism spectra of protein-containing and protein-free chlorosomes isolated from *Chloroflexus aurantiacus* strain Ok-70-fl (1058) 194
Gudz, T.I., see Novgorodov, S.A. (1058) 242
Guerlesquin, F., see Dolla, A. (1058) 171
Guffanti, A.A., see Quirk, P.G. (1058) 131
Güner, S., Robertson, D.E., Yu, L., Qiu, Z.-h., Yu, C.-A. and Knaff, D.B.
The *Rhodospirillum rubrum* cytochrome bc_1 complex: redox properties, inhibitor sensitivity and proton pumping (1058) 269

Hackenbrock, C.R., see Chazotte, B. (1058) 400
Harrison, M.A. and Allen, J.F.
Light-dependent phosphorylation of Photosystem II polypeptides

maintains electron transport at high light intensity: separation from effects of phosphorylation of LHC-II (1058) 289
Hibino, T., De Boer, A.D., Weisbeek, P.J. and Takabe, T.
Reconstitution of mature plastocyanin from precursor apo-plastocyanin expressed in *Escherichia coli* (1058) 107
Holzwarth, A.R., see Griebenow, K. (1058) 194
Hooper, A.B., Logan, M., Arciero, D.M. and McTavish, H.
c-Cytochromes of the ammonia-oxidizing chemolithoautotrophic bacteria (1058) 13
Horton, P., see Crofts, J. (1058) 187
Hreggvidsson, G.O.
Two structurally different cytochromes *c* from *Bacillus azotoformans*: on the evolution of Gram-positive bacteria (1058) 52

Inaba, H., see Watanabe, H. (1058) 209
Inoue, Y., see Sonoike, K. (1058) 121
Iwasaki, H., Yoshimura, T., Suzuki, S. and Shidara, S.
Spectral properties of *Achromobacter xylosoxidans* cytochromes *c'* and their NO complexes (1058) 79

Juszczak, L.J., Zilinskas, B.A., Geacintov, N.E., Breton, J. and Sauer, K.
Orientation and linear dichroism of *Mastigocladus laminosus* phycocyanin trimer and *Nostoc* sp. phycocyanin dodecamer in stretched poly(vinyl alcohol) films (1058) 363

Kamen, M.D.
International workshop on non-mitochondrial cytochromes *c*. A short foreword with some history (1058) 3
Kapelko, V.I., see Kupriyanov, V.V. (1058) 386
Kassner, R.J.
Ligand binding properties of cytochromes *c'* (1058) 8
Kleinherenbrink, F.A.M., see Deinum, G. (1058) 339
Knaff, D.B., see Güner, S. (1058) 269
Kobayashi, M., see Van de Meent, E.J. (1058) 356
Kobayashi, M., see Watanabe, H. (1058) 209
Koike, H., see Sonoike, K. (1058) 121
Korchazhkina, O.V., see Kupriyanov, V.V. (1058) 386
Kraayenhof, R., see Bakels, R.H.A. (1058) 225
Krab, K., see Bakels, R.H.A. (1058) 225
Krab, K., see Van den Bergen, C.W.M. (1058) 203
Kramer, H., see Deinum, G. (1058) 339
Krämer, R., see Sluse, F.E. (1058) 329
Krogmann, D.W.
The low-potential cytochrome *c* of cyanobacteria and algae (1058) 35
Krulwich, T.A., see Quirk, P.G. (1058) 131
Kučera, I., see Maťchová, I. (1058) 256
Kudrjashov, Y.B., see Novgorodov, S.A. (1058) 242
Kupriyanov, V.V., Lakomkin, V.L., Korchazhkina, O.V., Stepanov, V.A., Steinschneider, A.Y. and Kapelko, V.I.
Cardiac contractile function, oxygen consumption rate and cytosolic phosphates during inhibition of electron flux by amytal – a ^{31}P-NMR study (1058) 386
Kushnareva, Y.E., see Novgorodov, S.A. (1058) 242

Lakomkin, V.L., see Kupriyanov, V.V. (1058) 386
Lee, C.P., see Martens, M.E. (1058) 152
LeGall, J., see Moura, J.J.G. (1058) 61
Leroux, G.D., see Purcell, M. (1058) 374
Leroy, G., see Dolla, A. (1058) 171
Liu, M.-Y., see Moura, J.J.G. (1058) 61
Logan, M., see Hooper, A.B. (1058) 13
Löw, H., see Barr, R. (1058) 261

Macrì, F., Vianello, A., Braidot, E. and Zancani, M.
Free fatty acids dissipate proton electrochemical gradients in pea stem microsomes and submitochondrial particles (1058) 249
Madgwick, S.A., see Rich, P.R. (1058) 312
Martens, M.E., Peterson, P.L. and Lee, C.P.
In vitro effects of glucocorticoid on mitochondrial energy metabolism (1058) 152
Maťchová, I. and Kučera, I.
Evidence for the role of soluble cytochrome *c* in the dissimilatory reduction of nitrite and nitrous oxide by cells of *Paracoccus denitrificans* (1058) 256
McTavish, H., see Hooper, A.B. (1058) 13
Melis, A.
Dynamics of photosynthetic membrane composition and function (1058) 87
Meyer, T.E.
Evolution of cytochromes and photosynthesis (1058) 31
Michel-Beyerle, M.E., see Volk, M. (1058) 217
Moore, G.R.
Bacterial 4-α-helical bundle cytochromes (1058) 38
Moss, D.A., see Rich, P.R. (1058) 312
Moura, I., see Moura, J.J.G. (1058) 61
Moura, J.J.G., Costa, C., Liu, M.-Y., Moura, I. and LeGall, J.
Structural and functional approach toward a classification of the complex cytochrome *c* system found in sulfate-reducing bacteria (1058) 61
Muneyuki, E., Yoshida, M., Bullough, D.A. and Allison, W.S.
Heterogeneous hydrolysis of Substoichiometric ATP by the F_1-ATPase from *Escherichia coli* (1058) 304

Nagano, T., see Yamanaka, T. (1058) 48
Novgorodov, S.A., Gudz, T.I., Kushnareva, Y.E., Roginsky, V.A. and Kudrjashov, Y.B.
Mechanism accounting for the induction of nonspecific permeability of the inner mitochondrial membrane by hydroperoxides (1058) 242

Ogrodnik, A., see Volk, M. (1058) 217
Owens, T.G., see Shreve, A.P. (1058) 280

Pace, R.J., Smith, P., Bramley, R. and Stehlik, D.
EPR saturation and temperature dependence studies on signals from the oxygen-evolving centre of Photosystem II (1058) 161
Persson, B., see Petronilli, V. (1058) 297
Peterson, P.L., see Martens, M.E. (1058) 152
Petronilli, V., Persson, B., Zoratti, M., Rydström, J. and Azzone, G.F.
Flow–force relationships during energy transfer between mitochondrial proton pumps (1058) 297
Pettigrew, G.W.
The cytochrome *c* peroxidase of *Paracoccus denitrificans* (1058) 25
Plass, R.J., see Quirk, P.G. (1058) 131
Purcell, M., Leroux, G.D. and Carpentier, R.
Interaction of the electron donor diphenylcarbazide with the herbicide-binding niche of Photosystem II (1058) 374

Qiu, Z.-h., see Güner, S. (1058) 269
Quirk, P.G., Guffanti, A.A., Plass, R.J., Clejan, S. and Krulwich, T.A.
Protonophore-resistance and cytochrome expression in mutant strains of the facultative alkaliphile *Bacillus firmus* OF4 (1058) 131

Rajnicek, A., see Barr, R. (1058) 261
Rich, P.R., Madgwick, S.A. and Moss, D.A.
The interactions of duroquinol, DBMIB and NQNO with the chloroplast cytochrome *bf* complex (1058) 312
Robertson, D.E., see Güner, S. (1058) 269
Roginsky, V.A., see Novgorodov, S.A. (1058) 242

Ronquist, G., see Wedenberg, K. (1058) 147
Ruban, A.V.
The use of excitation fluorescence spectroscopy in the study of short-term chloroplast membrane reorganisation (1058) 411
Rutherford, A.W., see Van Mieghem, F.J.E. (1058) 379
Rydström, J., see Petronilli, V. (1058) 297

Saeki, R., see Watanabe, H. (1058) 209
Salemme, F.R., see Weber, P.C. (1058) 83
Satoh, K., see Van Mieghem, F.J.E. (1058) 379
Sauer, K., see Juszczak, L.J. (1058) 363
Scheidel, G., see Volk, M. (1058) 217
Scholts, M.J.C., see Bakels, R.H.A. (1058) 225
Shidara, S., see Iwasaki, H. (1058) 79
Shioi, Y., see Doi, M. (1058) 235
Shoji, K., see Yamanaka, T. (1058) 48
Shreve, A.P., Trautman, J.K., Frank, H.A., Owens, T.G. and Albrecht, A.C.
Femtosecond energy-transfer processes in the B800-850 light-harvesting complex of *Rhodobacter sphaeroides* 2.4.1 (1058) 280
Sluse, F.E., Evens, A., Dierks, T., Duyckaerts, C., Sluse-Goffart, C.M. and Krämer, R.
Kinetic study of the aspartate/glutamate carrier in intact rat heart mitochondria and comparison with a reconstituted system (1058) 329
Sluse-Goffart, C.M., see Sluse, F.E. (1058) 329
Smith, G.M. and Yu, L.P.
High-resolution ^{1}H- and ^{15}N-NMR studies of *Rhodospirillum rubrum* cytochrome c_2 (1058) 75
Smith, P., see Pace, R.J. (1058) 161
Sonoike, K., Koike, H., Enami, I. and Inoue, Y.
The emission spectra of thermoluminescence from the photosynthetic apparatus (1058) 121
Stehlik, D., see Pace, R.J. (1058) 161
Steinschneider, A.Y., see Kupriyanov, V.V. (1058) 386
Stepanov, V.A., see Kupriyanov, V.V. (1058) 386
Suzuki, S., see Iwasaki, H. (1058) 79
Suzuki, S., see Watanabe, H. (1058) 209

Takabe, T., see Hibino, T. (1058) 107
Trautman, J.K., see Shreve, A.P. (1058) 280

Ulmsten, U., see Wedenberg, K. (1058) 147
Usa, M., see Watanabe, H. (1058) 209

Van Beeumen, J.
Primary structure diversity of prokaryotic diheme cytochromes *c* (1058) 56
Van de Meent, E.J., Kobayashi, M., Erkelens, C., Van Veelen, P.A., Amesz, J. and Watanabe, T.
Identification of 8^{1}-hydroxychlorophyll *a* as a functional reaction center pigment in heliobacteria (1058) 356
Van den Bergen, C.W.M., Krab, K., Wagner, A.M. and Van der Plas, L.H.W.
Valinomycin: a very effective inhibitor of the cyanide-insensitive alternative pathway in plant mitochondria (1058) 203
Van der Plas, L.H.W., see Van den Bergen, C.W.M. (1058) 203
Van Grondelle, R., see Griebenow, K. (1058) 194
Van Mieghem, F.J.E., Satoh, K. and Rutherford, A.W.
A chlorophyll tilted 30° relative to the membrane in the Photosystem II reaction centre (1058) 379
Van Mourik, F., see Griebenow, K. (1058) 194
Van Veelen, P.A., see Van de Meent, E.J. (1058) 356
Van Walraven, H.S., see Bakels, R.H.A. (1058) 225
Vianello, A., see Macrì, F. (1058) 249
Volk, M., Scheidel, G., Ogrodnik, A., Feick, R. and Michel-Beyerle, M.E.
High quantum yield of charge separation in reaction centers of *Chloroflexus aurantiacus* (1058) 217

Wagner, A.M., see Van den Bergen, C.W.M. (1058) 203
Waldenström, A., see Wedenberg, K. (1058) 147
Watanabe, H., Kobayashi, M., Suzuki, S., Usa, M., Agatsuma, S.-i., Saeki, R. and Inaba, H.
Aldehyde-enhanced photon emission from crude extracts of soybean seedlings (1058) 209
Watanabe, T., see Van de Meent, E.J. (1058) 356
Weber, P.C., Wendoloski, J.J. and Salemme, F.R.
Cooperative ligand reorientations in cytochrome c_3: a molecular dynamics simulation (1058) 83
Wedenberg, K., Ronquist, G., Waldenström, A. and Ulmsten, U.
Regional differences in energy charge of the pregnant human uterus regardless of functional status in comparison with the non-pregnant uterus (1058) 147
Weisbeek, P.J., see Hibino, T. (1058) 107
Wendoloski, J.J., see Weber, P.C. (1058) 83
Whitney, A.B. and Bellion, E.
ATPase activities in peroxisome-proliferating yeast (1058) 345
Williams, R.J.P.
Uncoupled and coupled electron transfer reactions (1058) 71
Williams, R.J.P., see Bartsch, R.G. (1058) 1
Wilson, D.F., see Greenbaum, N.L. (1058) 113
Wood, P.M.
Why do *c*-type cytochromes exist? – Reprise (1058) 5
Wu, E.-S., see Chazotte, B. (1058) 400

Yamanaka, T., Nagano, T., Shoji, K. and Fukumori, Y.
Cytochromes *c* of *Nitrobacter winogradskyi* and *Thiobacillus novellus*: structure, function and evolution (1058) 48
Yoshida, M., see Muneyuki, E. (1058) 304
Yoshimura, T., see Iwasaki, H. (1058) 79
Yu, C.-A., see Güner, S. (1058) 269
Yu, L., see Güner, S. (1058) 269
Yu, L.P., see Smith, G.M. (1058) 75

Zancani, M., see Macrì, F. (1058) 249
Zilinskas, B.A., see Juszczak, L.J. (1058) 363
Zoratti, M., see Petronilli, V. (1058) 297